

ATTACHMENT B: ASSUMPTIONS USED FOR SAN JUAN WATER DISTRICT CONSORTIUM

WATER RIGHTS AND CONTRACT ENTITLEMENTS

The San Juan Water District Consortium includes Citrus Heights Water District (CHWD), Fair Oaks Water District (FOWD), Orange Vale Water Company (OVWC), San Juan Water District, and a portion of the City of Folsom. These districts and the relevant portion of the City of Folsom are hereinafter collectively referred to as the SJWD.

SJWD has a pre-1914 water right to 33,000 acre-feet (AF) per year, a contract with Bureau of Reclamation (Reclamation) for 11,200 AF per year from the Central Valley Project (CVP), and a contract with Placer County Water Agency (PCWA) for 25,000 AF per year. The place of use for the PCWA contract from the Middle Fork Project (MFP) was originally SJWD's service area within Placer County, but this was later amended to include SJWD's service area in Sacramento County on a supplemental basis. SJWD has also contracted with Reclamation for an additional 13,000 AF per year of American River water, as authorized by Public Law 101-514.

All SJWD surface water is diverted from Folsom Lake and treated at the Sidney N. Peterson Water Treatment Plant. CHWD, FOWD, and OVWC supplement their surface water supply with groundwater to meet peak needs.

WATER FORUM AGREEMENT

SJWD is a signatory of the Water Forum Agreement (WFA). Its Purveyor Specific Agreement (PSA) stipulates that SJWD would divert and use 82,200 AF in Water Forum wet and average years. This amount of surface water diversion will be reduced to 54,200 AF in driest years. In drier years, SJWD will divert and use a decreasing amount of surface water, from 82,200 AF to 54,200 AF per year, in proportion to the decrease in the March-through-November unimpaired inflow to Folsom Lake from 950,000 AF to 400,000 AF.

In particular, the 54,200 AF in driest years would include 10,000 AF of the PCWA contract amount in Placer County, and 33,000 AF of water rights and CVP entitlements.

WATER TRANSFER AGREEMENT WITH CITY OF ROSEVILLE

SJWD has a 2001 agreement with the City of Roseville (Roseville) in to provide 800 AF per year of surface water from PCWA's MFP contract entitlement for Doctor's Ranch and Foothills Business Park in Placer County. SJWD is currently negotiating another 3,200 AF per year from the same entitlement to Roseville for the West Roseville Specific Plan area. The 4,000 AF of water supply is assumed available only in wet and average years.

SJWD's 2030 WATER DEMAND AND SUPPLY

Tables A.B1 and A.B3 show the SJWD's 2030 water demand and supply in wet, average, and driest years. The condition for drier years varies depending upon the hydrologic conditions in the American River Basin; however, it is bounded by the conditions in average years and in driest years.

**Table A.B1 SJWD's 2030 Annual Demands and Supplies in Acre-Feet,
per WFA Limitations on Diversion from the American River (Wet Years, 62% of Occurrence Frequency)**

Type of Use	Area	Water Transfer	Demand ^[1]	Surface Water Sources				Groundwater
				Pre-1914	CVP ^[2]	CVP ^[2] (PL 101-514)	MFP	
M&I	SJWD Consortium							
	SJWD (Placer County)		18,691	0	0	0	18,691	0
	SJWD (Sacramento County)		6,531	6,531	0	0	0	0
	FOWD		14,222	14,222	0	0	0	0
	CHWD		16,419	12,247	4,172	0	0	0
	OVWC		6,747	0	6,356	391	0	0
	Subtotal		62,610	33,000	10,528	391	0	0
	Roseville	4,000	0	0	0	0	4,000	0
Subtotal		4,000	62,610	33,000	10,528	391	22,691	0
Remaining Amount ^[3]				0	672	12,609	2,309	
Total Water Rights/Entitlements				33,000	11,200	13,000	25,000	

^[1] From American River Basin Cooperative Agencies Regional Water Master Plan (2000).

^[2] Assumed 94% CVP allocation (see Attachment A).

^[3] Remaining amount due to WFA limitations, assumed CVP deficiency, and estimated demand.

**Table A.B2 SJWD's 2030 Annual Demands and Supplies in Acre-Feet,
per WFA Limitations on Diversion from the American River (Average Years, 24% Occurrence Frequency)**

Type of Use	Area	Water Transfer	Demand ^[1]	Surface Water Sources				Groundwater
				Pre-1914	CVP ^[2]	CVP ^[2] (PL 101-514)	MFP	
M&I	SJWD Consortium							
	SJWD (Placer County)		18,691	0	0	0	18,691	0
	SJWD (Sacramento County)		6,531	6,531	0	0	0	0
	FOWD		14,222	14,222	0	0	0	0
	CHWD		16,419	12,247	4,172	0	0	0
	OVWC		6,747	0	5,124	1,623	0	0
	Subtotal		62,610	33,000	9,296	1,623	0	0
	Roseville	4,000	0	0	0	0	4,000	0
Subtotal		4,000	62,610	33,000	9,296	1,623	22,691	0
Remaining Amount ^[3]					0	1,904	11,377	2,309
Total Water Rights/Entitlements					33,000	11,200	13,000	25,000

^[1] From American River Basin Cooperative Agencies Regional Water Master Plan (2000).

^[2] Assumed 83% CVP allocation (see Attachment A).

^[3] Remaining amount due to WFA limitations, assumed CVP deficiency, and estimated demand.

Table A.B3 SJWD's 2030 Annual Demands and Supplies in Acre-Feet, per WFA Limitations on Diversion from the American River (Driest Years, 2% Occurrence Frequency)

Type of Use	Area	Water Demand ^[1] Transfer	Surface Water Sources				Groundwater
			Pre-1914	CVP ^[2]	CVP ^[2] (PL 101-514)	MFP	
M&I	SJWD Consortium						
	SJWD (Placer County)	18,691	8,691	0	0	10,000	0
	SJWD (Sacramento County)	6,531	6,531	0	0	0	0
	FOWD	14,222	11,022	0	0	0	3,200
	CHWD	16,419	6,756	5,969	0	0	3,694
	OVWC	6,747	0	415	4,814	0	1,518
	Subtotal	62,610	33,000	6,384	4,814	10,000	8,412
	Roseville	0	0	0	0	0	
Subtotal		0	62,610	33,000	6,384	4,814	10,000
Remaining Amount ^[3]			0	4,816	8,186	15,000	8,412 ^[4]
Total Water Rights/Entitlements			33,000	11,200	13,000	25,000	

^[1] From American River Basin Cooperative Agencies Regional Water Master Plan (2000).

^[2] Assumed 57% CVP allocation (see Attachment A).

^[3] Remaining amount due to WFA limitations, assumed CVP deficiency, and estimated demand.

^[4] Total groundwater pumping is distributed to FOWD, CHWD, and OVWC proportionally to their corresponding demand.